BLACK&DECKER®

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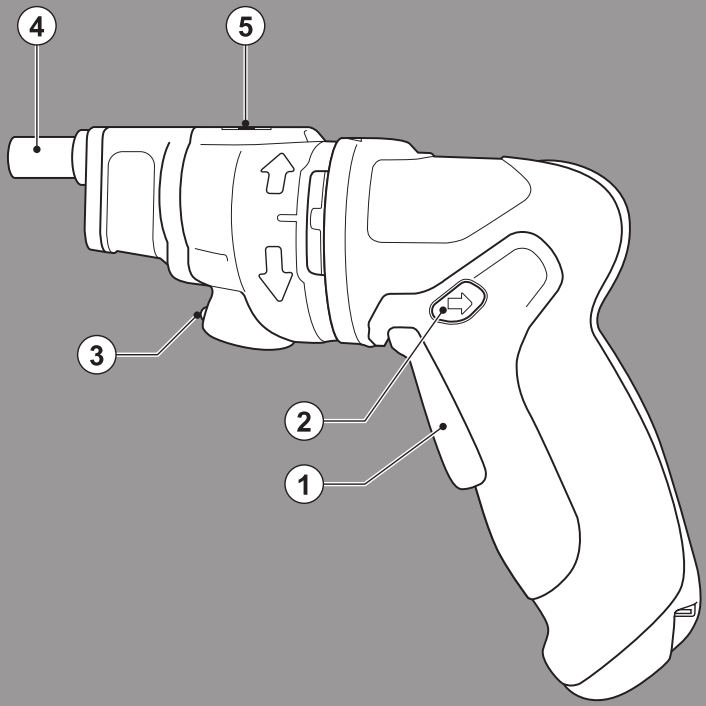

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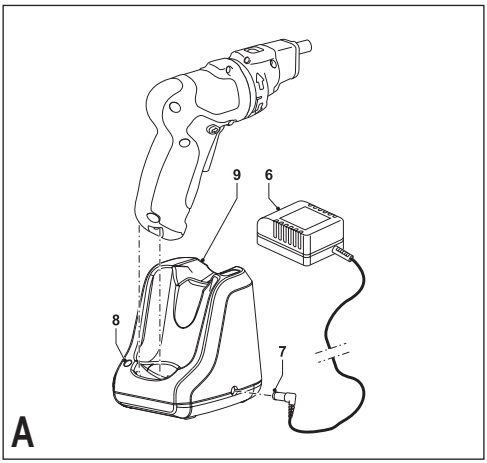
PP360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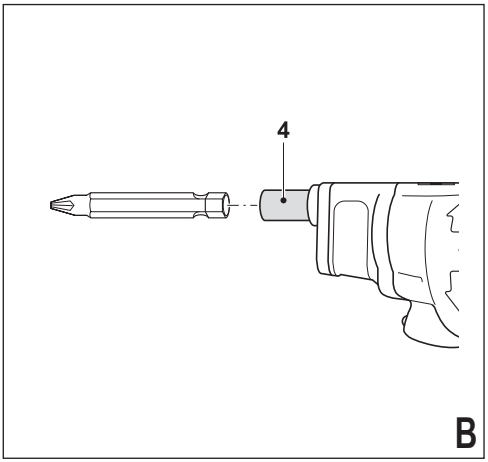
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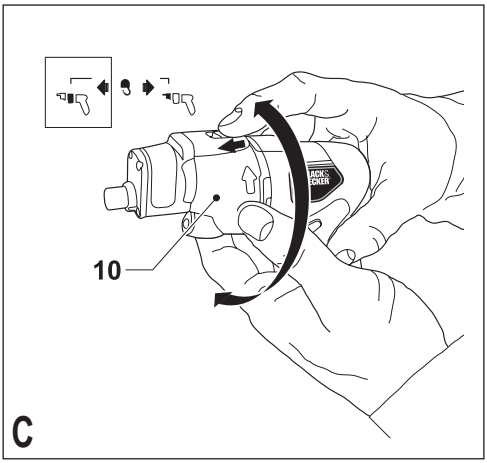
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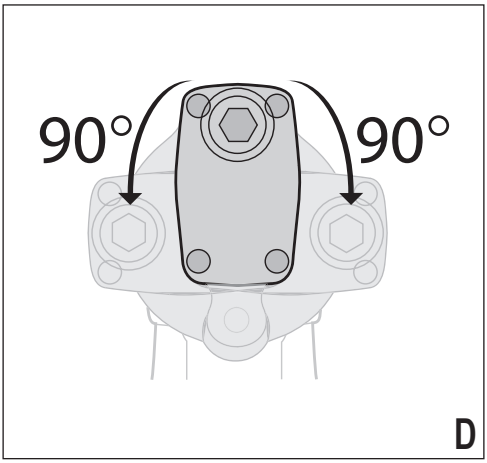
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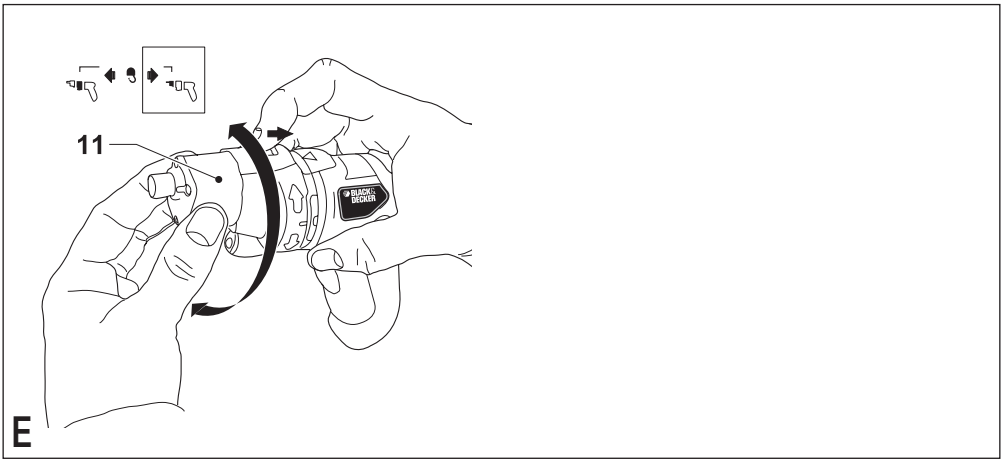
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E

Intended use

Your Black & Decker Pivot Driver™ has been designed for screwdriving applications. These applications include driving screws in tight locations, such as close to edges and corners and against ceilings and floors, etc. This tool is intended for consumer use only.

Safety instructions

General power tool safety warnings

Warning! Read all safety warnings and all instructions. Failure to follow the warnings and instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference. The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

1. **Work area safety**

a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2. **Electrical safety**

a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

b. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

f. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3. **Personal safety**

a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

b. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4. **Power tool use and care**

a. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

b. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
e. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
f. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
g. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5. **Battery tool use and care**
a. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
b. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
c. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

6. **Service**
a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional power tool safety warnings

Warning! Additional safety warnings for screwdrivers and impact wrenches

- **Hold power tool by insulated gripping surfaces when performing an operation where the fastener may contact hidden wiring or its own cord.** Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
- **Wear ear protectors with impact wrenches.** Exposure to noise can cause hearing loss.
- **Use auxiliary handles supplied with the tool.** Loss of control can cause personal injury.
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- Before driving fasteners into walls, floors or ceilings, check for the location of wiring and pipes.
- This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- The intended use is described in this instruction manual. The use of any accessory or attachment or performance of any operation with this tool other than those recommended in this instruction manual may present a risk of personal injury and/or damage to property.

Vibration

The declared vibration emission values stated in the technical data and the declaration of conformity have been measured in accordance with a standard test method provided by EN 60745 and may be used for comparing one tool with another. The declared vibration emission value may also be used in a preliminary assessment of exposure.

Warning! The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used. The vibration level may increase above the level stated.

When assessing vibration exposure to determine safety measures required by 2002/44/EC to protect persons regularly using power tools in employment, an estimation of vibration exposure should consider, the actual conditions of use and the way the tool is used, including taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time.

Labels on tool

The following pictograms are shown on the tool:

Warning! To reduce the risk of injury, the user must read the instruction manual.

Additional safety instructions for batteries and chargers

Batteries

- Never attempt to open for any reason.
- Do not expose the battery to water.
- Do not expose the battery to heat.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 10 °C and 40 °C.
- Charge only using the charger provided with the tool.
- When disposing of batteries, follow the instructions given in the section "Protecting the environment".

Chargers

- Use your Black & Decker charger only to charge the battery in the tool with which it was supplied. Other batteries could burst, causing personal injury and damage.
- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose the charger to water.
- Do not open the charger.
- Do not probe the charger.

The charger is intended for indoor use only.

Read the instruction manual before use.

The charger automatically shuts off if the ambient temperature becomes too high. As soon as the ambient temperature has cooled down, the charger will resume operating.

Charge only at ambient temperatures between 10 °C and 40 °C.

Charging

Electrical safety

Your charger is double insulated; therefore no earth wire is required. Always check that the mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.

- If the supply cord is damaged, it must be replaced by the manufacturer or an authorised Black & Decker Service Centre in order to avoid a hazard.

Overview

1. On/off switch
2. Forward/reverse slider
3. LED light
4. Bit holder
5. Pivot release slider

Fig. A

6. Charger
7. Charger connector
8. Charging indicator
9. Charging base

Assembly

Fitting and removing a screwdriver bit (fig. B)

This tool uses screwdriver bits with a 1/4" (6.35 mm) hexagonal shank.

- To fit a bit, insert the bit shaft into the bit holder (4).
- To remove a bit, pull the bit shaft out of the bit holder (4).

Use

- Before first use, the battery must be charged for 14 hours.
- The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before. When charging the battery for the first time, or after a prolonged storage, it will only accept an 80% charge. After several charges and discharge cycles, the battery will attain full capacity.
- Place the tool on the charging base whenever it is not in use.

Charging the battery (fig. A)

- Place the tool on the charging base (9).
- Insert the connector (7) into the charging base.
- Plug in the charger (6).
- Leave the tool connected to the charger for 8 - 10 hours.

The red light illuminates when the unit is on charge and will stay red as long as there is power to the charger. The red light will not go off to indicate a full charge.

The charger may hum and become warm while charging; this is normal and does not indicate a problem.

Generally, a charging time of 8 hours will enable the tool to operate at an effective power level for most tasks. However, further charging for up to 10 hours could significantly increase the run time, depending on the battery and charging conditions.

Warning! Do not charge the battery at ambient temperatures below 4 °C or above 40 °C.

Selecting the direction of rotation

For tightening screws, use forward (clockwise) rotation. For loosening screws use reverse (counterclockwise) rotation.

- To select forward rotation, push the forward/reverse slider (2) to the left.
- To select reverse rotation, push the forward/reverse slider (2) to the right.
- To lock the tool, set the forward/reverse button into the centre position.

Screwdriving

- Select forward or reverse rotation using the forward/ reverse slider (2).
- To switch the tool on, press the on/off switch switch (1).
- To switch the tool off, release the on/off switch (1).

Spindle lock

This tool is fitted with a spindle lock so that it can be used as a normal screwdriver. Use the tool this way to loosen very tight screws or to firmly tighten screws.

Rotating the gearbox (fig. C, D & E)

The tool is fitted with a rotating gearbox to facilitate various screwdriving applications, such as reaching screws in tight corners and close to ceilings and floors. The bitholder can be set to a centre position and 3 off-centre positions: top, left and right. The gearbox and the spindle can be rotated to set the various bitholder positions.

- To rotate the gearbox (10) push the pivot release slider (5) forward and turn the gearbox 90° to the left or to the right (fig. C & D). Note: The gearbox will only turn 90° left and right. Do not attempt to turn any further.
- To rotate the spindle (11) push the pivot release slider (5) backward and turn the spindle head 180° left or right (fig. E).

Warning! Ensure the gearbox and spindle are locked into place before use.

LED light

The LED light is activated automatically when the trigger is depressed. The LED will illuminate when the trigger is partially depressed, before the unit begins running. The LED will also illuminate when the trigger is depressed and the forward/ reverse slider (2) is in the locked off position (central position).

Hints for optimum use

- Let the tool work at its own pace. Do not overload.
- Always use the correct type and size of screwdriver bit.
- If screws are difficult to tighten, try applying a small amount of washing liquid or soap as a lubricant.
- Use the auto spindle lock to loosen very tight screws or to firmly tighten screws.
- Always hold the tool and screwdriver bit in a straight line with the screw.
- When screwing in wood, it is recommended to drill a pilot hole with a depth equal to the length of the screw. A pilot hole guides the screw and prevents splintering or distortion of the wood. For the optimum size of the pilot hole, refer to the table below.
- When screwing in hardwood, also drill a clearance hole with a depth equal to half the length of the screw. For the optimum size of the clearance hole, refer to the table below.

Screw size	Pilot hole ø (softwood)	Pilot hole ø (hardwood)	Clearance hole
No. 6 (3.5 mm)	2.0 mm	2.5 mm	4 mm
No. 8 (4 mm)	3.2 mm	3.5 mm	5.0 mm
No. 10 (5 mm)	3.5 mm	4.0 mm	5.7 mm

Accessories

The performance of your tool depends on the accessory used. Black & Decker and Piranha accessories are engineered to high quality standards and designed to enhance the performance of your tool. By using these accessories you will get the very best from your tool.

This tool uses screwdriver bits with a 1/4" (6.35 mm) hexagonal shank.

Maintenance

Your Black & Decker tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Your charger does not require any maintenance apart from regular cleaning.

Warning! Before performing any maintenance on the tool, remove the battery from the tool. Unplug the charger before cleaning it.

- Regularly clean the ventilation slots in your tool and charger using a soft brush or dry cloth.
- Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.

Protecting the environment

Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your Black & Decker product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.

Black & Decker provides a facility for the collection and recycling of Black & Decker products once they have reached the end of their working life. To take advantage of this service please return your product to any authorised repair agent who will collect them on our behalf.

You can check the location of your nearest authorised repair agent by contacting your local Black & Decker office at the address indicated in this manual. Alternatively, a list of authorised Black & Decker repair agents and full details of our after-sales service and contacts are available on the Internet at: **www.2helpU.com**

Batteries

Black & Decker batteries can be recharged many times. At the end of their useful life, discard batteries with due care for our environment:

- Run the battery down completely, then remove it from the tool.
- NiCd, NiMH and Li-Ion batteries are recyclable. Take them to any authorised repair agent or a local recycling station.

Technical data

		PP360 (H1)
Voltage	V_{DC}	4.8
No-load speed	min^{-1}	180
Max. torque	Nm	4
Bit holder		1/4" (6.35 mm)
Weight	kg	0.4
Battery		
Voltage	V	4.8
Battery type		NiMH
AHr rating		1.2
Charger		
Input voltage	V_{AC}	230
Charging rate	A	0.13
Approx. charging time	h	8-10

Level of sound pressure according to EN 60745:
Sound pressure (L_{pA}) 63.5 dB(A), uncertainty (K) 3 dB(A)
Acoustic power (L_{WA}) 74.5 dB(A), uncertainty (K) 3 dB(A)

Vibration total values (triax vector sum) according to EN 60745:
Screwdriving without impact ($a_{h,S}$) 0.5 m/s^2, uncertainty (K) 1.5 m/s^2

EC declaration of conformity

MACHINERY DIRECTIVE

CE

PP360

Black & Decker declares that these products described under "technical data" are in compliance with:
2006/42/EC, EN 60745-1, EN 60745-2-2

For more information, please contact Black & Decker at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of Black & Decker.

Kevin Hewitt
Vice-President Global Engineering
Black & Decker Europe, 210 Bath Road, Slough,
Berkshire, SL1 3YD
United Kingdom
19/01/2012

Guarantee

Black & Decker is confident of the quality of its products and offers an outstanding guarantee. This guarantee statement is in addition to and in no way prejudices your statutory rights. The guarantee is valid within the territories of the Member States of the European Union and the European Free Trade Area.

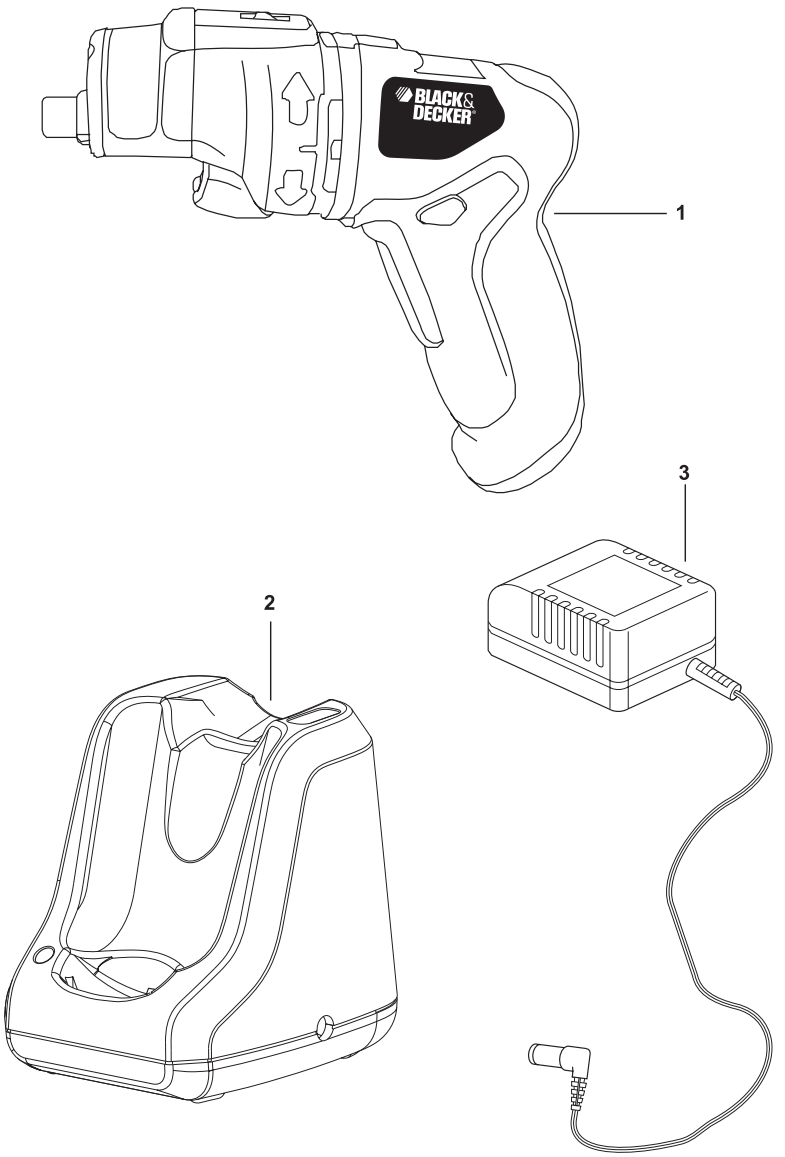
If a Black & Decker product becomes defective due to faulty materials, workmanship or lack of conformity, within 24 months from the date of purchase, Black & Decker guarantees to replace defective parts, repair products subjected to fair wear and tear or replace such products to ensure minimum inconvenience to the customer unless:

- The product has been used for trade, professional or hire purposes;
- The product has been subjected to misuse or neglect;
- The product has sustained damage through foreign objects, substances or accidents;
- Repairs have been attempted by persons other than authorised repair agents or Black & Decker service staff.

To claim on the guarantee, you will need to submit proof of purchase to the seller or an authorised repair agent. You can check the location of your nearest authorised repair agent by contacting your local Black & Decker office at the address indicated in this manual. Alternatively, a list of authorised Black & Decker repair agents and full details of our after-sales service and contacts are available on the Internet at: **www.2helpU.com**

Please visit our website **www.blackanddecker.co.uk** to register your new Black & Decker product and to be kept up to date on new products and special offers. Further information on the Black & Decker brand and our range of products is available at **www.blackanddecker.co.uk**

BLACK & DECKER	PP360	TYP. 1



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ENGLISH

Do not forget to register your product!

www.blackanddecker.co.uk/productregistration

Register your product online at **www.blackanddecker.co.uk/productregistration** or send your name, surname and product code to Black & Decker in your country.

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